

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P940752

Luminaire Tested: **GALN-SB4A-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14722 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

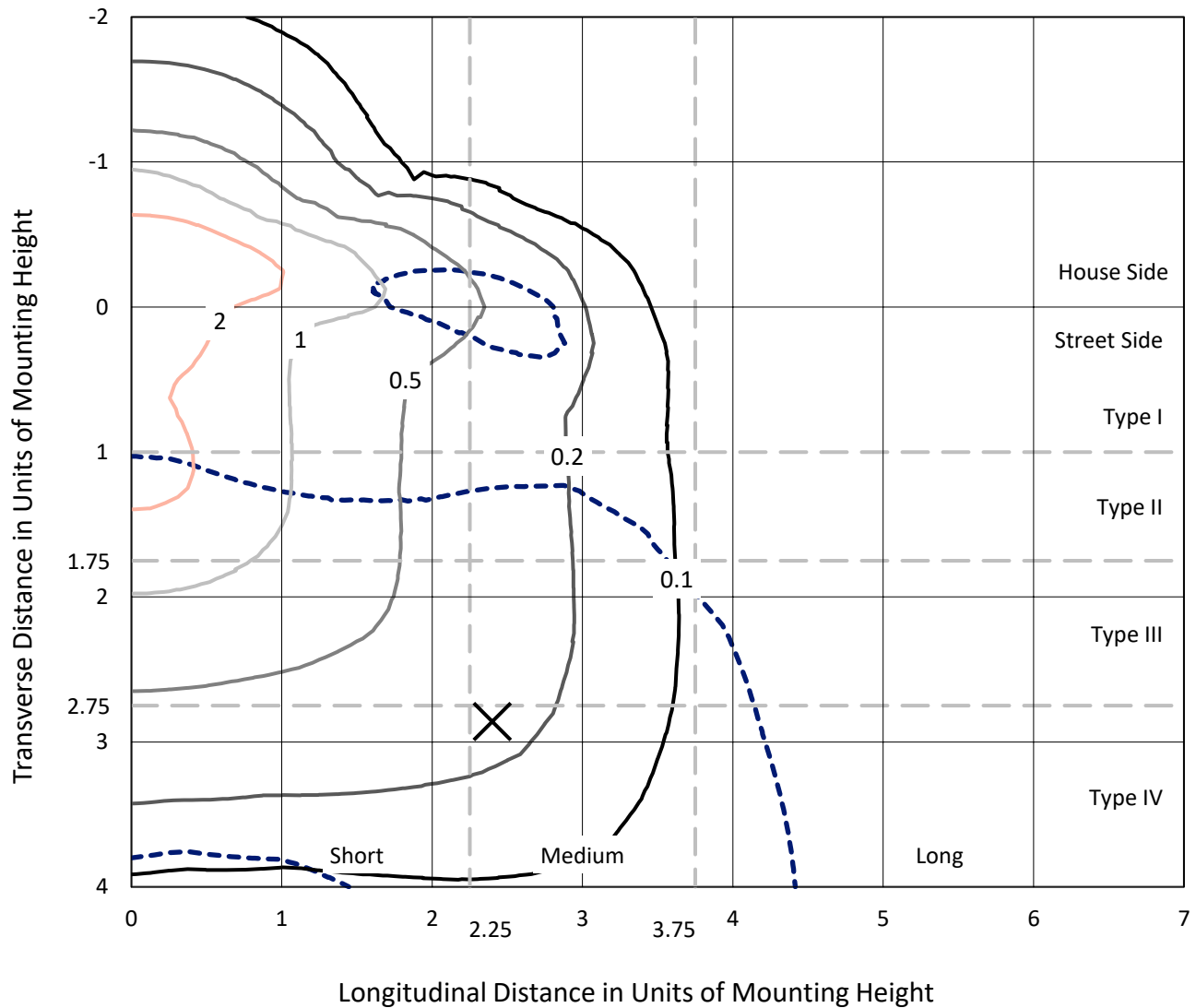


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

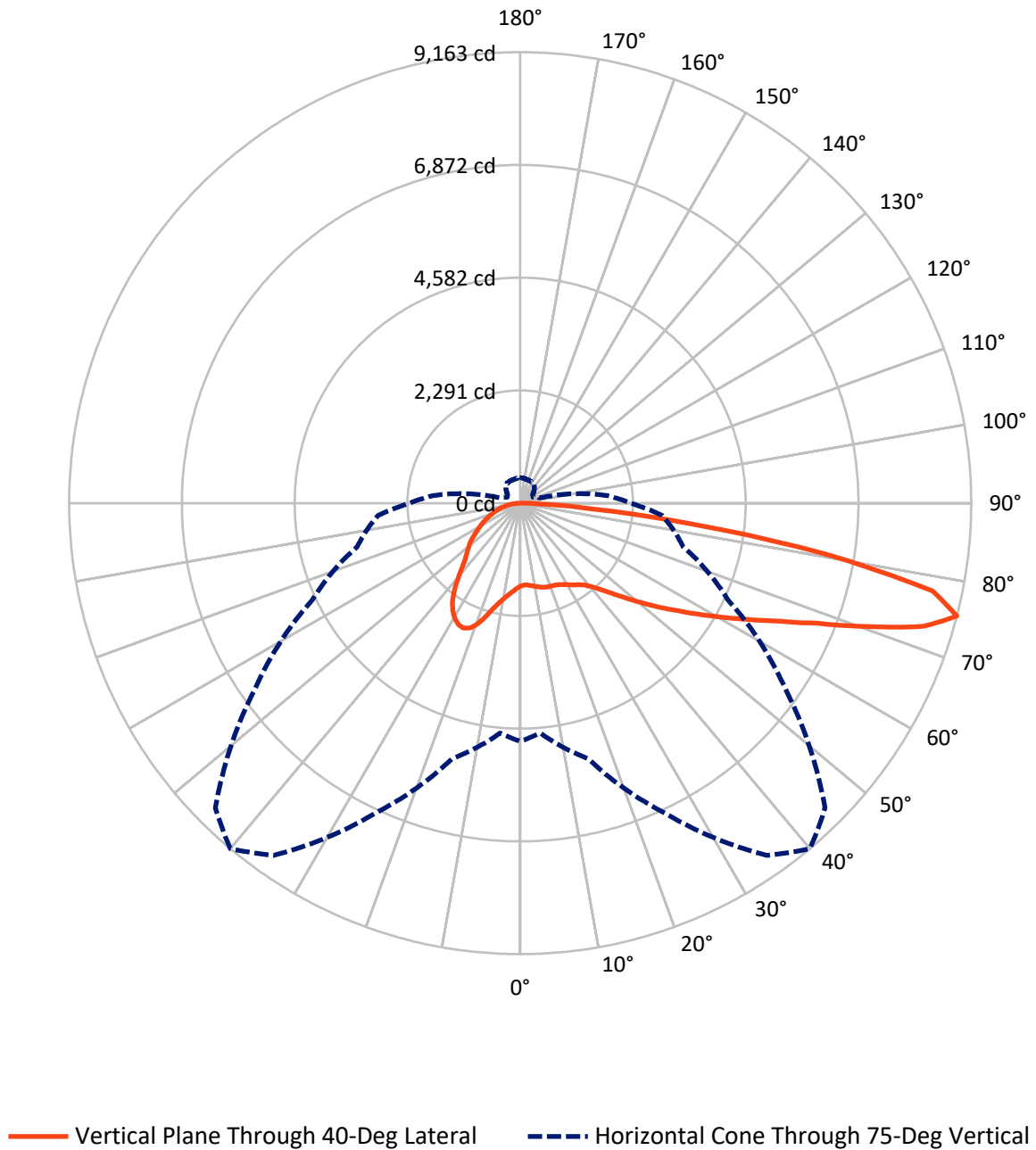


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4561.4	0.0	4561.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	10160.6	0.0	10160.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	14722.0	0.0	14722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.1
10°-20°	564.2	3.8
20°-30°	1030.2	7.0
30°-40°	1461.1	9.9
40°-50°	1972.9	13.4
50°-60°	2654.1	18.0
60°-70°	3368.6	22.9
70°-80°	3057.2	20.8
80°-90°	445.6	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14722.0	100.0
0°-180°	14722.0	100.0

Coefficient of Utilization



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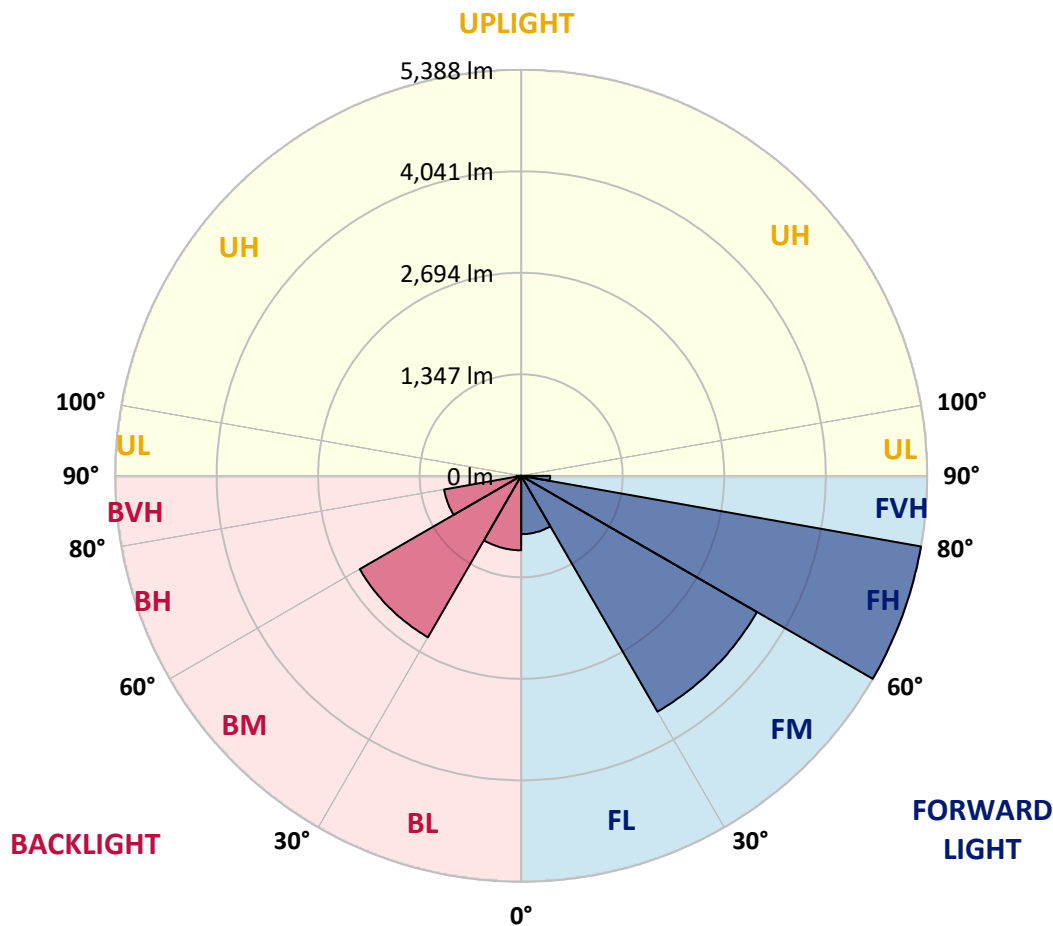
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	774.4	5.3			
FM	(30°-60°)	3613.9	24.5			
FH	(60°-80°)	5388.0	36.6			G3/7500
FVH	(80°-90°)	384.3	2.6			G3/500
BL	(0°-30°)	988.0	6.7	B2/1000		
BM	(30°-60°)	2474.1	16.8	B2/2500		
BH	(60°-80°)	1037.8	7.0	B3/2500		G3/2500
BVH	(80°-90°)	61.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5
2.5°	1657.7	1667.1	1664.7	1661.6	1661.6	1662.4	1661.6	1667.1	1672.5	1678.0	1686.6
5°	1674.9	1684.3	1679.6	1675.7	1672.5	1671.8	1669.4	1668.6	1671.8	1678.8	1690.5
7.5°	1708.5	1717.8	1710.8	1703.8	1697.5	1694.4	1691.3	1686.6	1684.3	1688.2	1704.6
10°	1745.9	1755.3	1746.7	1734.2	1724.1	1720.2	1717.1	1712.4	1709.2	1711.6	1729.5
12.5°	1783.4	1792.8	1781.1	1763.9	1750.6	1748.3	1744.4	1742.8	1742.0	1741.3	1759.2
15°	1818.6	1826.4	1811.5	1791.2	1777.2	1773.3	1769.4	1771.7	1775.6	1780.3	1800.6
17.5°	1845.9	1853.7	1831.8	1805.3	1792.0	1790.5	1788.1	1795.9	1806.9	1818.6	1843.6
20°	1870.9	1878.7	1850.6	1814.7	1799.0	1799.0	1799.8	1816.2	1831.8	1849.0	1883.4
22.5°	1906.0	1912.3	1877.9	1828.7	1806.1	1807.6	1813.9	1830.3	1849.8	1873.2	1920.9
25°	1958.3	1963.0	1920.9	1855.3	1829.5	1834.2	1839.6	1847.5	1866.2	1893.5	1957.6
27.5°	2042.7	2046.6	1991.1	1902.1	1863.1	1870.9	1878.7	1873.2	1881.8	1905.2	1987.2
30°	2161.4	2163.7	2093.4	1975.5	1920.1	1924.0	1925.5	1902.9	1886.5	1905.2	2008.3
32.5°	2301.9	2301.1	2217.6	2064.5	1984.9	1981.0	1967.7	1923.2	1884.9	1901.3	2027.0
35°	2519.8	2511.2	2403.4	2189.5	2058.3	2034.1	2002.8	1945.8	1892.7	1897.4	2043.4
37.5°	2880.5	2854.0	2704.8	2394.0	2167.6	2105.9	2059.8	1982.5	1909.9	1895.9	2063.0
40°	3287.3	3253.7	3089.8	2674.4	2331.6	2232.4	2158.2	2034.9	1938.0	1902.9	2091.9
42.5°	3769.9	3722.2	3545.8	3004.7	2539.3	2395.6	2283.9	2101.2	1979.4	1925.5	2130.9
45°	4362.5	4299.3	4049.4	3377.1	2800.9	2609.6	2460.4	2202.0	2042.7	1969.3	2189.5
47.5°	4961.4	4977.0	4621.8	3803.4	3114.8	2873.5	2681.4	2353.4	2134.8	2039.5	2283.9
50°	5597.8	5608.7	5191.0	4275.9	3470.8	3171.8	2929.7	2522.9	2262.9	2139.5	2425.3
52.5°	6094.4	6096.0	5707.9	4770.1	3841.7	3499.7	3197.5	2716.5	2411.2	2272.2	2613.5
55°	6405.2	6401.3	6070.2	5237.8	4268.0	3844.1	3494.2	2936.7	2592.4	2428.4	2850.0
57.5°	6630.9	6619.1	6320.1	5640.0	4722.5	4250.9	3830.0	3186.6	2806.3	2614.2	3161.6
60°	6716.7	6709.7	6489.5	5987.4	5200.4	4700.6	4217.3	3466.1	3049.2	2833.7	3562.2
62.5°	6749.5	6762.8	6655.8	6324.0	5711.8	5198.8	4642.8	3800.3	3322.5	3082.0	3984.6
65°	6865.1	6889.3	6867.4	6764.4	6289.6	5782.1	5207.4	4197.8	3620.7	3348.2	4425.8
67.5°	7093.9	7118.1	7127.5	7291.4	6995.5	6509.0	5911.7	4692.8	3969.8	3624.6	4757.6
70°	7088.4	7081.4	7246.9	7710.7	7879.4	7515.5	6861.2	5301.9	4386.0	3854.2	4799.8
72.5°	6452.0	6395.8	6787.0	7706.1	8615.0	8566.5	8020.7	6087.4	4745.1	3882.3	4165.0
75°	4840.4	4690.5	5381.5	6944.7	8737.5	9163.1	8757.8	6574.6	4660.0	3430.2	2898.5
77.5°	2070.0	1919.3	2733.7	5141.0	7820.1	8565.8	8081.6	5736.0	3719.9	2268.3	1423.5
80°	541.9	541.1	826.1	2330.8	5318.3	6325.5	5549.4	3704.3	2125.4	810.5	392.8
82.5°	224.1	218.6	303.7	906.5	2598.6	3549.7	2896.9	1652.2	767.6	219.4	130.4
85°	83.5	82.8	147.6	313.1	916.7	1464.1	1059.6	422.4	191.3	107.0	58.6
87.5°	23.4	22.6	32.0	108.5	223.3	338.9	181.2	69.5	53.9	42.2	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5	1683.5
2.5°	1688.9	1692.9	1699.9	1705.3	1712.4	1720.2	1731.1	1738.1	1745.2	1749.9	1746.7
5°	1696.0	1704.6	1722.5	1740.5	1761.6	1781.1	1803.7	1820.1	1833.4	1837.3	1838.9
7.5°	1711.6	1725.6	1756.1	1786.6	1820.1	1852.1	1884.9	1913.0	1935.7	1944.3	1945.1
10°	1738.9	1757.7	1800.6	1843.6	1888.1	1937.3	1979.4	2020.0	2052.0	2065.3	2066.1
12.5°	1773.3	1796.7	1852.9	1912.3	1974.0	2041.9	2096.5	2146.5	2186.3	2204.3	2204.3
15°	1817.8	1848.2	1920.1	1999.7	2090.3	2184.8	2254.3	2309.7	2354.2	2376.1	2374.5
17.5°	1866.2	1906.8	1997.4	2117.6	2247.2	2371.4	2452.6	2493.2	2539.3	2560.4	2559.6
20°	1913.0	1963.0	2092.6	2267.5	2440.1	2572.1	2637.7	2648.6	2651.7	2654.1	2660.3
22.5°	1961.5	2028.6	2212.1	2456.5	2641.6	2732.9	2742.3	2695.4	2629.9	2599.4	2608.0
25°	2014.6	2103.6	2368.3	2665.0	2814.9	2825.8	2754.0	2640.0	2515.9	2458.8	2467.4
27.5°	2066.1	2190.2	2555.7	2864.1	2939.8	2843.8	2689.2	2527.6	2377.6	2317.5	2324.5
30°	2117.6	2289.4	2762.6	3038.2	2996.8	2799.3	2586.9	2406.5	2255.8	2192.6	2199.6
32.5°	2169.9	2405.0	3000.7	3163.9	2986.7	2704.8	2459.6	2270.7	2137.9	2071.6	2080.1
35°	2229.3	2547.1	3226.4	3232.7	2918.8	2565.8	2291.8	2108.3	1992.7	1939.6	1951.3
37.5°	2306.6	2727.5	3425.5	3249.8	2800.1	2362.0	2083.3	1916.2	1820.9	1796.7	1813.9
40°	2402.6	2944.5	3577.8	3222.5	2624.4	2114.5	1855.3	1721.7	1667.9	1673.3	1692.1
42.5°	2527.6	3187.4	3684.8	3152.2	2380.0	1859.2	1655.4	1596.0	1621.8	1643.7	1664.0
45°	2690.0	3439.6	3751.1	3032.8	2103.6	1642.9	1537.5	1551.5	1571.0	1573.4	1589.0
47.5°	2897.7	3694.9	3794.9	2852.4	1821.7	1490.6	1462.5	1465.6	1461.7	1445.3	1457.8
50°	3156.9	3943.2	3833.9	2613.5	1582.0	1395.4	1357.9	1346.9	1293.1	1240.0	1247.0
52.5°	3452.1	4171.2	3850.3	2316.7	1395.4	1315.7	1254.8	1186.1	1085.4	1069.0	1074.4
55°	3780.0	4382.0	3808.1	1952.1	1238.4	1213.4	1121.3	1038.5	1027.6	1013.5	1015.9
57.5°	4172.0	4609.3	3722.2	1545.3	1077.6	1093.9	1004.2	1013.5	994.0	972.1	968.2
60°	4600.7	4844.3	3571.5	1174.4	911.2	944.8	973.7	972.9	967.5	949.5	943.2
62.5°	4986.4	4998.9	3274.8	899.5	765.2	829.2	908.1	907.3	902.6	892.5	888.6
65°	5216.0	4975.5	2779.8	708.2	645.0	734.0	819.1	825.3	826.1	825.3	825.3
67.5°	5175.4	4701.4	2100.4	563.8	545.8	637.2	730.9	739.5	745.7	747.3	748.8
70°	4716.2	4099.4	1369.6	449.8	457.6	552.1	647.3	655.9	661.4	667.6	670.7
72.5°	3676.2	3014.0	784.0	363.9	380.3	478.7	564.5	574.7	577.8	589.5	594.2
75°	2240.2	1772.5	423.2	286.6	312.3	409.2	482.6	494.3	499.7	513.8	515.4
77.5°	1065.1	767.6	241.3	223.3	251.4	334.2	407.6	420.9	406.0	413.8	407.6
80°	360.0	285.0	152.3	170.2	192.1	260.8	326.4	339.7	308.4	306.9	303.7
82.5°	125.7	115.6	96.8	113.2	124.2	186.6	246.7	263.9	229.6	228.8	217.9
85°	49.2	46.9	53.9	61.7	74.2	114.8	162.4	171.0	141.3	114.0	112.4
87.5°	10.2	10.9	13.3	14.1	22.6	39.8	58.6	71.8	57.0	48.4	44.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)